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Robust compression and transmission of MPEG-4 video

window



Steven Gringeri, Roman Egorov, Khaled Shuaib, Arianne Lewis, Bert Basch

October 1999 Proceedings of the seventh ACM international conference on Multimedia (Part 1) MULTIMEDIA '99

Publisher: ACM Press

Full text available: pdf(1.46 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper discusses issues related to the delivery of MPEG-4 video over the Internet and wireless channels. MPEG-4's built-in error resilience capabilities such as flexible resynchronization markers, data partitioning, header protection, reversible VLCs, and forced intra-frame refresh are described. Methods for using these techniques to build a "smart" network decoder are discussed, and the decoder's video quality is measured for various channel error conditions. The effective ...

Keywords: MPEG-4, error mitigation, error resilience, robust video

² Time synch and localization: Lightweight time synchronization for sensor networks Jana van Greunen, Jan Rabaey



September 2003 Proceedings of the 2nd ACM international conference on Wireless sensor networks and applications WSNA '03

Publisher: ACM Press

Full text available: pdf(1.38 MB)

Additional Information: full citation, abstract, references, citings, index

This paper presents lightweight tree-based synchronization (LTS) methods for sensor networks. First, a single-hop, pair-wise synchronization scheme is analyzed. This scheme requires the exchange of only three messages and has Gaussian error properties. The single-hop approach is extended to a centralized multi-hop synchronization method. Multihop synchronization consists of pair-wise synchronizations performed along the edges of a spanning tree. Multi-hop synchronization requires only n-1 pair- ...

Keywords: lightweight, multi-hop, spanning tree, synchronization

Rate-adaptive time synchronization for long-lived sensor networks Saurabh Ganeriwal, Deepak Ganesanl, Mark Hansen, Mani B. Srivastava, Deborah Estrin June 2005 ACM SIGMETRICS Performance Evaluation Review, Proceedings of the





2005 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '05, Volume 33 Issue 1

Publisher: ACM Press

Full text available: pdf(200.96 KB) Additional Information: full citation, abstract, references, index terms

Time synchronization is critical to sensor networks at many layers of its design and enables better duty-cycling of the radio, accurate localization, beamforming and other collaborative signal processing. While there has been significant work in sensor network synchronization, measurement based studies have been restricted to very short-term (few minutes) datasets and have focused on obtaining accurate instantaneous synchronization. Long-term synchronization has typically been handled by periodi ...

Keywords: clock drift, sensor networks, time synchronization

4 Localization and timesynch: The flooding time synchronization protocol

Miklós Maróti, Branislav Kusy, Gyula Simon, Ákos Lédeczi

November 2004 Proceedings of the 2nd international conference on Embedded networked sensor systems SenSys '04

Publisher: ACM Press

Full text available: pdf(178.40 KB)

Additional Information: full citation, abstract, references, citings, index terms

Wireless sensor network applications, similarly to other distributed systems, often require a scalable time synchronization service enabling data consistency and coordination. This paper describes the Flooding Time Synchronization Protocol (FTSP), especially tailored for applications requiring stringent precision on resource limited wireless platforms. The proposed time synchronization protocol uses low communication bandwidth and it is robust against node and link failures. The FTSP achieves ...

Keywords: clock drift, clock synchronization, multi-hop, sensor networks, time synchronization

5 Asynchronous algorithms for the parallel simulation of event-driven dynamical

systems

Vijay K. Madisetti, Jean C. Walrand, David G. Messerschmitt

July 1991 ACM Transactions on Modeling and Computer Simulation (TOMACS), Volume 1 Issue 3

Publisher: ACM Press

Full text available: pdf(1.83 MB) Additional Information: full citation, references, citings, index terms

Keywords: Self-synchronization Concurrent Computing Systems SESYCCS), Time Warp, probabilistic synchronization

6 Group F: synchronization: Adaptive clock synchronization in sensor networks

Santashil PalChaudhuri, Amit Kumar Saha, David B. Johnson

April 2004 Proceedings of the third international symposium on Information processing in sensor networks IPSN '04

Publisher: ACM Press

Full text available: pdf(176.03 KB)

Additional Information: full citation, abstract, references, citings, index terms

Recent advances in technology have made low cost, low power wireless sensors a reality. Clock synchronization is an important service in any distributed system, including sensor

network systems. Applications of clock synchronization in sensor networks include data integration in sensors, sensor reading fusion, TDMA medium access scheduling, and power mode energy saving. However, for a number of reasons, standard clock synchronization protocols are unsuitable for direct application in sensor netw ...

Keywords: clock synchronization, probabilistic algorithms, sensor networks

7 Synchronization: Estimating clock uncertainty for efficient duty-cycling in sensor



networks

Saurabh Ganeriwal, Deepak Ganesan, Hohyun Shim, Vlasios Tsiatsis, Mani B. Srivastava November 2005 Proceedings of the 3rd international conference on Embedded networked sensor systems SenSys '05

Publisher: ACM Press

Full text available: pdf(476.22 KB) Additional Information: full citation, abstract, references, index terms

Radio duty cycling has received significant attention in sensor networking literature, particularly in the form of protocols for medium access control and topology management. While many protocols have claimed to achieve significant duty-cycling benefits in theory and simulation, these benefits have often not translated to practice. The dominant factor that prevents the optimal usage of the radio in real deployment settings is time uncertainty between sensor nodes. This paper proposes an uncerta ...

Keywords: clock drift, polynomial model estimation, rate adaptation, sampling period, sensor networks, time synchronization

8 Synchronization: Secure time synchronization service for sensor networks





Saurabh Ganeriwal, Srdjan Capkun, Chih-Chieh Han, Mani B. Srivastava September 2005 **Proceedings of the 4th ACM workshop on Wireless security WiSe '05 Publisher:** ACM Press

Full text available: 📆 pdf(303.30 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

In this paper, we analyze attacks on existing time synchronization protocols for wireless sensor networks. We propose a secure time synchronization toolbox to counter these attacks. This toolbox includes protocols for secure pairwise and group synchronization of nodes that lie in each other's power ranges and of nodes that are separated by multiple hops. We provide an in-depth analysis of security and energy overhead of the proposed protocols.

Keywords: delay, message authentication code, security, sensor networks, time synchronization

9 A forward error recovery technique for MPEG-II video transport





R. Radhakrishna Pillai, B. Prabhakaran, Qui Qiang

October 1999 Proceedings of the seventh ACM international conference on Multimedia (Part 2) MULTIMEDIA '99

Publisher: ACM Press

Full text available: pdf(285.15 KB) Additional Information: full citation, references, index terms

10



<u>Exploiting perception in high-fidelity virtual environments: Exploiting perception in high-fidelity virtual environments</u>



Additional presentations from the 24th course are available on the citation page

Mashhuda Glencross, Alan G. Chalmers, Ming C. Lin, Miguel A. Otaduy, Diego Gutierrez July 2006 ACM SIGGRAPH 2006 Courses SIGGRAPH '06

Publisher: ACM Press

Full text available: pdf(5.07 MB) Additional Information: full citation, abstract, references

The objective of this course is to provide an introduction to the issues that must be considered when building high-fidelity 3D engaging shared virtual environments. The principles of human perception guide important development of algorithms and techniques in collaboration, graphical, auditory, and haptic rendering. We aim to show how human perception is exploited to achieve realism in high fidelity environments within the constraints of available finite computational resources. In this course w ...

Keywords: collaborative environments, haptics, high-fidelity rendering, human-computer interaction, multi-user, networked applications, perception, virtual reality

11 Management: Timing-sync protocol for sensor networks

Saurabh Ganeriwal, Ram Kumar, Mani B. Srivastava

November 2003 Proceedings of the 1st international conference on Embedded networked sensor systems SenSys '03

Publisher: ACM Press

Full text available: pdf(391.43 KB)

Additional Information: full citation, abstract, references, citings, index terms

Wireless ad-hoc sensor networks have emerged as an interesting and important research area in the last few years. The applications envisioned for such networks require collaborative execution of a distributed task amongst a large set of sensor nodes. This is realized by exchanging messages that are time-stamped using the local clocks on the nodes. Therefore, time synchronization becomes an indispensable piece of infrastructure in such systems. For years, protocols such as NTP have kept the clock ...

Keywords: clock drift, medium access control, packet delay, sensor networks, time synchronization

12 A security architecture for fault-tolerant systems

Michael K. Reiter, Kenneth P. Birman, Robbert van Renesse

November 1994 ACM Transactions on Computer Systems (TOCS), Volume 12 Issue 4

Publisher: ACM Press

Full text available: pdf(2.50 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Process groups are a common abstraction for fault-tolerant computing in distributed systems. We present a security architecture that extends the process group into a security abstraction. Integral parts of this architecture are services that securely and fault tolerantly support cryptographic key distribution. Using replication only when necessary, and introducing novel replication techniques when it was necessary, we have constructed these services both to be easily defensible against atta ...

Keywords: key distribution, multicast, process groups

13 A survey of research and practices of Network-on-chip
Tobias Bjerregaard, Shankar Mahadevan





June 2006 ACM Computing Surveys (CSUR), Volume 38 Issue 1

Publisher: ACM Press

Full text available: pdf(1.41 MB) Additional Information: full citation, abstract, references, index terms

The scaling of microchip technologies has enabled large scale systems-on-chip (SoC). Network-on-chip (NoC) research addresses global communication in SoC, involving (i) a move from computation-centric to communication-centric design and (ii) the implementation of scalable communication structures. This survey presents a perspective on existing NoC research. We define the following abstractions: system, network adapter, network, and link to explain and structure the fundamental concepts. First, r ...

Keywords: Chip-area networks, GALS, GSI design, NoC, OCP, SoC, ULSI design, communication abstractions, communication-centric design, interconnects, network-onchip, on-chip communication, sockets, system-on-chip

14 General applications and methodology: General methodology 3: a federation object coordinator for simulation based control and analysis



Seungyub Lee, Sreeram Ramakrishnan, Richard A. Wysk

December 2002 Proceedings of the 34th conference on Winter simulation: exploring new frontiers WSC '02

Publisher: Winter Simulation Conference

Full text available: pdf(1.00 MB) Additional Information: full citation, abstract, references

This paper presents an architecture and a design for a Federation Object Coordinator (FOC) for simulation based control and analysis. This research focuses on developing a methodology for implementing a distributed simulation control mechanism which can be adopted to virtual manufacturing or virtual enterprises. In this method, distributed fast or real time simulation models interact with low level controllers and among themselves to actively control a system. The timing and coordination requ ...

15 Foundation of a framework to support knowledge management in the field of contextaware and pervasive computing



Philipp Amann, Gerald Quirchmayr

January 2003 Proceedings of the Australasian information security workshop conference on ACSW frontiers 2003 - Volume 21 ACSW Frontiers '03

Publisher: Australian Computer Society, Inc.

Full text available: 📆 pdf(761.39 KB) Additional Information: full citation, abstract, references, index terms

In this paper we propose a framework to combine Knowledge Management and contextaware and pervasive computing, emphasizing on synchronization and adaptation issues of workflow processes in mobile settings. The key aspect of the proposed framework is to enable adaptive, two-way interaction between context-aware systems and users in mobile settings. In contrast to existing concepts, we aim at capturing active feedback from users, which should contribute to the Organizational Memory, after ...

Keywords: WfMS, adaptability, context-awareness, knowledge management, local autonomy, pervasive computing, synchronization

16 User-level internet path diagnosis



Ratul Mahajan, Neil Spring, David Wetherall, Thomas Anderson

October 2003 ACM SIGOPS Operating Systems Review , Proceedings of the nineteenth ACM symposium on Operating systems principles SOSP '03, Volume 37 Issue

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index

Full text available: pdf(403.57 KB)

Diagnosing faults in the Internet is arduous and time-consuming, in part because the network is composed of diverse components spread across many administrative domains. We consider an extreme form of this problem: can end users, with no special privileges, identify and pinpoint faults inside the network that degrade the performance of their applications? To answer this question, we present both an architecture for user-level Internet path diagnosis and a practical tool to diagnose paths in the ...

Keywords: measurement tools, path diagnosis

17 Reducing energy consumption of multiprocessor SoC architectures by exploiting



memory bank locality

Mahmut Taylan Kandemir

April 2006 ACM Transactions on Design Automation of Electronic Systems (TODAES), Volume 11 Issue 2

Publisher: ACM Press

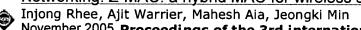
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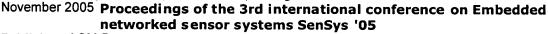
Additional Information: full citation, abstract, references, index terms

The next generation embedded architectures are expected to accommodate multiple processors on the same chip. While this makes interprocessor communication less costly as compared to traditional high-end parallel machines, it also makes off-chip requests very costly. In particular, frequent off-chip memory accesses do not only increase execution cycles but also increase overall power consumption. One way of alleviating this power problem is to divide the off-chip memory into multiple banks, each ...

Keywords: Banked memory systems, bank locality, compiler optimization, energy consumption, multiprocessor SoC

18 Networking: Z-MAC: a hybrid MAC for wireless sensor networks





Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(305.76 KB) terms

This paper presents the design, implementation and performance evaluation of a hybrid MAC protocol, called Z-MAC, for wireless sensor networks that combines the strengths of TDMA and CSMA while offsetting their weaknesses. Like CSMA, Z-MAC achieves high channel utilization and low-latency under low contention and like TDMA, achieves high channel utilization under high contention and reduces collision among two-hop neighbors at a low cost. A distinctive feature of Z-MAC is that its performance is ...

Keywords: CSMA, MAC, TDMA, wireless sensor networks

19 Routing and MAC: Versatile low power media access for wireless sensor networks



November 2004 Proceedings of the 2nd international conference on Embedded networked sensor systems SenSys '04

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(529.51 KB) <u>terms</u>

We propose <i>B-MAC</i>, a carrier sense media access protocol for wireless sensor

networks that provides a flexible interface to obtain ultra low power operation, effective collision avoidance, and high channel utilization. To achieve low power operation, <i>B-MAC</i> employs an adaptive preamble sampling scheme to reduce duty cycle and minimize idle listening. <i>B-MAC</i> supports on-the-fly reconfiguration and provides bidirectional interfaces for system services t ...

Keywords: communication interfaces, energy efficient operation, media access protocols, networking, reconfigurable protocols, wireless sensor networks

20 <u>DB-IR-1</u> (databases and information retrieval): indexing and query processing



effiency: Energy management schemes for memory-resident database systems
Jayaprakash Pisharath, Alok Choudhary, Mahmut Kandemir

November 2004 Proceedings of the thirteenth ACM international conference on Information and knowledge management CIKM '04

Publisher: ACM Press

Full text available: pdf(251.47 KB) Additional Information: full citation, abstract, references, index terms

With the tremendous growth of system memories, memory-resident databases are increasingly becoming important in various domains. Newer memories provide a structured way of storing data in multiple chips, with each chip having a bank of memory modules. Current memory-resident databases are yet to take full advantage of the banked storage system, which offers a lot of room for performance and energy optimizations. In this paper, we identify the implications of a banked memory environment in sup ...

Keywords: DRAM, database, energy, hardware energy scheme, multiquery optimization, power consumption, query-directed energy management

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